

IRON SHIP.

No. 21215 Survey held at Houddon Date, First Survey 31st Aug 1887 Last Survey 13th March 1888

(Received at London Office, FRIDAY 16 1888)

21215

On the S.S. "Mimosa"

Official Number

Tonnage under Tonnage Deck 1198.6
 Ditto of Awning Deck 17.17
 Ditto of Poop or Raised Cr. Dk. 59.42
 Ditto of Houses on Deck 246.55
 Ditto of Forecastle 35.92
 Gross Tonnage 1557.66
 Less Crew Space 45.05
 Less Engine Room 498.45
 Register Tonnage as cut on Beam 1013.26

ONE, OR TWO DECKED, THREE DECKED VESSEL, SPAR, OR AWNING-DECKED VESSEL.

Half Breadth (moulded) 17.87 Feet.
 Depth from upper part of Keel to top of Upper Deck Beams 19.96
 Girth of Half Midship Frame (as per Rule) 33.94
 1st Number See letter
 1st Number, if a 3-Decked Vessel .. deduct 7 feet
 Length 253.16
 2nd Number 18169
 Proportions— Breadths to Length .. 7.08
 Depths to Length— Upper Deck to Keel .. 12.83
 Main Deck ditto ..

Master G. J. Bone
 Built at Houddon
 When built 1888 Launched 15th Feb
 By whom built H. J. Edwards & Son
 Owners J. Stephens & Son
 Residence 39 Lime Street
 Port belonging to London
 Destined Voyage Genoa
 If Surveyed while Building, Afloat, or in Dry Dock.

Report per 14/3/88 per form 74/3/88

LENGTH	Feet.	Inches.	BREADTH	Feet.	Inches.	DEPTH	Feet.	Inches.	Power of Engines	Horse.	N ^o . of Decks with flat laid	N ^o . of Tiers of Beams
on deck as per Rule	<u>253.16</u>		Moulded	<u>35.74</u>		top of Floors to Upper Deck Beams	<u>16.6</u>		<u>140</u>		<u>1</u>	<u>2</u>
Dimensions of Ship per Register, length <u>255</u> breadth, <u>36</u> depth, <u>16.6</u> "Depth Moulded <u>19.3</u> "												
KEEL , depth and thickness	<u>Side Bars</u>		Inches in Ship		Inches per Rule		Flat Keel Plates, breadth and thickness					
STEM , moulding and thickness	<u>8 1/2 x 2 1/2</u>		<u>8 1/2 x 2 1/2</u>		<u>8 1/2 x 2 1/2</u>		PLATES in Garboard Strakes, br'dth & thickness					
STERN-POST for Rudder do. do.	<u>8 1/2 x 5</u>		<u>8 1/2 x 5</u>		<u>8 1/2 x 5</u>		From Garboard to upper part of Bilges					
" " for Propeller	<u>24</u>		<u>24</u>		<u>24</u>		Of d'bling at Bilge, or increased thickness, and length applied					
Distance of Frames from moulding edge to moulding edge, all fore and aft	<u>24</u>		<u>24</u>		<u>24</u>		From up. prt. of Bilge to lr. edge of Sh'rstrake					
FRAMES , Angle Iron, for 3/4 length amidships	<u>4 1/2 x 3</u>		<u>4 1/2 x 3</u>		<u>4 1/2 x 3</u>		Main Sheerstrake, breadth and thickness					
Do. for 1/2 at each end	<u>4 1/2 x 3</u>		<u>4 1/2 x 3</u>		<u>4 1/2 x 3</u>		Of d'bling at Sh'stk. & lng. applied					
REVERSED FRAMES , Angle Iron	<u>3 x 3</u>		<u>3 x 3</u>		<u>3 x 3</u>		From M'n. to Upr. or Spar Dk. Sh'rstrake					
FLOORS , depth and thickness of Floor Plate at mid line for half length amidships	<u>Cellular</u>		<u>Cellular</u>		<u>Cellular</u>		Up. or Spar Dk Sh'rstrake, br'dth & thckn'ss					
" thickness at the ends of vessel	<u>Cellular</u>		<u>Cellular</u>		<u>Cellular</u>		Butt Straps to outside plating, breadth & thickness					
" depth at 3/4 the half-bdth. as per Rule	<u>Cellular</u>		<u>Cellular</u>		<u>Cellular</u>		Lengths of Plating					
" height extended at the Bilges	<u>Cellular</u>		<u>Cellular</u>		<u>Cellular</u>		Shifts of Plating, and Stringers					
BEAMS , Upper, Spar, or Awning Deck	<u>6 x 3 8/16</u>		<u>6 x 3 8/16</u>		<u>6 x 3 8/16</u>		Gunwale Plating on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness					
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron	<u>6 x 3 8/16</u>		<u>6 x 3 8/16</u>		<u>6 x 3 8/16</u>		Angle Iron on ditto					
Single or double Angle Iron on Upper edge	<u>6 x 3 8/16</u>		<u>6 x 3 8/16</u>		<u>6 x 3 8/16</u>		Tie Plates fore and aft, outside Hatchways					
Average space	<u>Every frame</u>		<u>Every frame</u>		<u>Every frame</u>		Diagonal Tie Plates on Beams No. of Pairs					
BEAMS , Main, or Middle Deck	<u>6 x 3 8/16</u>		<u>6 x 3 8/16</u>		<u>6 x 3 8/16</u>		Flat of Up., Spar, or Awning Dk.					
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron	<u>6 x 3 8/16</u>		<u>6 x 3 8/16</u>		<u>6 x 3 8/16</u>		How fastened to Beams					
Single, or double Angle Iron, on Upper Edge	<u>6 x 3 8/16</u>		<u>6 x 3 8/16</u>		<u>6 x 3 8/16</u>		Stringer Plate on ends of Main or Middle Deck					
Average space	<u>Long frame</u>		<u>Long frame</u>		<u>Long frame</u>		Beams, breadth and thickness					
BEAMS , Lower Deck	<u>4 x 4 8/16</u>		<u>4 x 4 8/16</u>		<u>4 x 4 8/16</u>		Is the Stringer Plate attached to the outside plating?					
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron	<u>4 x 4 8/16</u>		<u>4 x 4 8/16</u>		<u>4 x 4 8/16</u>		Angle Irons on ditto, No. 2					
Single or double Angle Iron on Upper Edge	<u>4 x 4 8/16</u>		<u>4 x 4 8/16</u>		<u>4 x 4 8/16</u>		Tie Plates, outside Hatchways					
Average space	<u>See Profile</u>		<u>See Profile</u>		<u>See Profile</u>		Diagonal Tie Plates on Beams, No. of pairs					
BEAMS , Hold, or Orlop	<u>4 x 4 8/16</u>		<u>4 x 4 8/16</u>		<u>4 x 4 8/16</u>		Flat of Middle Deck* do. do.					
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron	<u>4 x 4 8/16</u>		<u>4 x 4 8/16</u>		<u>4 x 4 8/16</u>		How fastened to Beams					
Single or double Angle Iron on Upper Edge	<u>4 x 4 8/16</u>		<u>4 x 4 8/16</u>		<u>4 x 4 8/16</u>		Stringer Plates on ends of Lower Deck, Hold or Orlop Beams					
Average space	<u>See Profile</u>		<u>See Profile</u>		<u>See Profile</u>		Is the Stringer Plate attached to the outside plating?					
KEELSONS Centre line, single or double plate, box, or Intercostal, Plates	<u>Cellular</u>		<u>Cellular</u>		<u>Cellular</u>		Angle Irons on ditto, No. 2					
" Rider Plate	<u>Cellular</u>		<u>Cellular</u>		<u>Cellular</u>		Stringer or Tie Plates, outside Hatchways					
" Bulb Plate to Intercostal Keelson	<u>Cellular</u>		<u>Cellular</u>		<u>Cellular</u>		Flat of Lower Deck*					
" Angle Irons	<u>Cellular</u>		<u>Cellular</u>		<u>Cellular</u>		Ceiling betwixt Decks, thickness and material					
" Double Angle Iron Side Keelson	<u>Cellular</u>		<u>Cellular</u>		<u>Cellular</u>		" in hold do. do.					
" Side Intercostal Plate	<u>Cellular</u>		<u>Cellular</u>		<u>Cellular</u>		Main piece of Rudder, diameter at head					
" Attached to outside plating with angle iron	<u>Cellular</u>		<u>Cellular</u>		<u>Cellular</u>		do. at heel					
BILGE Angle Irons	<u>5 x 4 9/16</u>		<u>5 x 4 9/16</u>		<u>5 x 4 9/16</u>		Can the Rudder be unshipped afloat?					
" do. Bulb Iron	<u>5 x 4 9/16</u>		<u>5 x 4 9/16</u>		<u>5 x 4 9/16</u>		Bulkheads No. 4 No. per Rule					
" do. Intercostal plates riveted to plating for length	<u>5 x 4 9/16</u>		<u>5 x 4 9/16</u>		<u>5 x 4 9/16</u>		" Thickness of					
BILGE STRINGER Angle Irons	<u>5 x 4 9/16</u>		<u>5 x 4 9/16</u>		<u>5 x 4 9/16</u>		" Height up					
Intercostal plates riveted to plating for length	<u>5 x 4 9/16</u>		<u>5 x 4 9/16</u>		<u>5 x 4 9/16</u>		" How secured to sides of ship					
SIDE STRINGER Angle Irons	<u>5 x 4 9/16</u>		<u>5 x 4 9/16</u>		<u>5 x 4 9/16</u>		" Size of Vertical Angle Irons					
	<u>5 x 4 9/16</u>		<u>5 x 4 9/16</u>		<u>5 x 4 9/16</u>		" Are the outside Plates doubled two spaces of Frames in length?					

State clearly where plating is of alternate thickness— as distinguished from diminished thickness at ends of vessel.

* If Iron Deck, state if whole or part, and if wood deck is laid thereon.

The **FRAMES** extend in one length from Keel to Gunwale Riveted through plates with 7/8 in. Rivets, about 6 apart.

The **REVERSED ANGLE IRONS** on floors and frames extend from middle line to Hold Stringer and to Gunwale alternately

KEELSONS. Are the various lengths of Plates and Angle Irons properly connected? Yes And butts properly shifted? Yes

PLATING. Garboard, double riveted to Keel, with rivets 1 1/8 in. diameter, averaging 5 1/2 ins. from centre to centre.

" Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets 7/8 in. diameter, averaging 3 1/2 ins. from centre to centre.

" Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 7/8 in. diameter averaging 3 1/2 ins. from centre to centre.

" Butts of All Strakes at Bilge for 1/2 length, treble riveted with Butt Straps 2 x 3 1/2 thicker than the plates they connect.

" Edges from Bilge to Main Sheerstrake, worked clencher, double or single riveted; with rivets 7/8 in. diameter, averaging 3 1/2 ins. from cr. to cr.

" Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 7/8 in. diameter, averaging 3 1/2 ins. from cr. to cr.

" Edges of Main Sheerstrake, double or single riveted. Upper Sheerstrake, double or single riveted.

" Butts of Main Sheerstrake, treble riveted for 1/2 length amidships. Butts of Upper or Spar Sheerstrake, treble riveted length amidships

" Butts of Main Stringer Plate, treble riveted for 1/2 length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for length

" Breadth of laps of plating in double riveting 5 1/4 Breadth of laps of plating in single riveting 5

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? No. of Breasthooks, 3 Crutches, 4

What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Best Hub & Iron

Manufacturer's name or trade mark, Cornwall & Toman Long & Co + Bowfield Iron Co

The above is a correct description.

Builder's Signature, H. J. Edwards Surveyor's Signature, C. M. M. M. M.

NWC800-0076

Workmanship. Are the butts of plating planed or otherwise fitted? *Planed*
 Do the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies? *Yes*
 Are the fillings between the ribs and plates solid single pieces? *Yes*
 Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? *Yes*
 Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? *Yes*
 Do any rivets break into or through the seams or butts of the plating? *A few in butt only*

Masts, Bowsprit, Yards, &c., are *Iron & Wood* in *Good* condition, and sufficient in size and length. If of Iron or Steel give Scantlings of Plating, Angle Irons, &c., and further explain by a Sketch showing how the lower Masts and Bowsprit are constructed, showing the number of Plates and Angle Irons, mode of riveting, quality of Materials, and if stamped with Maker's name.

State also Length and Diameter of Lower Masts and Bowsprit *Iron Mast Iron. Keel to cap 76 feet 23 inch diam - Mainmast 68 feet 6" 19" diam. Doubled at wedging. Seams double riveted butts triple 2 plates in the round 6/16 to 4/16. Other spars Pitch pine.*

NUMBER for EQUIPMENT	SAILS.	CABLES, &c.	Fathoms.	Inches.	Test per Certificate.	Inches per Rule.	Machine where Tested & Suprtd.	ANCHORS.	N ^o .	Weight. Ex. Stock.	Test per Certificate.	W'ght req'd per Rule.	Machine where Tested & Suprtd.
	Chain	271	1 1/16	57.74	270 1/4			Bower Anchors	1	28.0.4	27.4.14	27.5.0	
	Fore Sails,	Iron Stream Chain	75	1 1/16	20 3/10	75 1/16			1	27.5.6	27.0.2.4	27.5.0	
	Fore Top Sails,	or Steel Wire							1	23.2.12	23.1.3.4	27.5.0	
	Fore Topmast Stay Sails,	or Hempen Strm Cable											
	Main Sails,	Towline, Hemp.	90	3 1/2	26 ton	Certified		Stream Anchor	1	9.1.0	11.6.3.4	8.3.0	
	Main Top Sails,	Hawser	90	5	18 ton	Certified		Kedge	1	4.5.0	7.2.2.0	4.2.0	
	and	Warp Hemp	90	7				2nd Kedge		2.1.14	4.7.2.0	2.1.0	
	Standing and Running Rigging	Hemp 1/4 in	360	5									

The Windlass is *Iron Patent* Capstan and Rudder *Good* Pumps *Good*
 Engine Room Skylights.—How constructed? *Steel framing to iron casing* How secured in ordinary weather? *Iron Sashes*
 What arrangements for deadlights in bad weather? *Glass protected with brass rods*
 Coal Bunker Openings.—How constructed? *Iron Coamings* How are lids secured? *Wood latches* Height above deck? *1 foot 6 in*
 Scuppers, &c.—What arrangements for clearing upper deck of water, in case of shipping a sea? *Ports & Scuppers*

Cargo Hatchways.—How formed? *Iron Cranking*
 State size Main Hatch *12x10x3* Fore Hatch *24x12x2.6* Quarter Hatch *12x12x2.9*
 If of extraordinary size, state how framed and secured? *Not extraordinary*
 What arrangement for shifting beams? *Web frames & wood for aft*
 Hatches, if strong and efficient? *Strong & Good 2 1/2 Solid*

Order for Special Survey No.	Date	Order for Ordinary Survey No.	Date	No.	in builder's yard.	DATES of Survey held while building as per Section 18.
2099	12 th Sep 1877			38		1st. On the several parts of the frame, when in place, and before the plating was wrought } 1887 Aug 31 Sep 6, 8, 9, 13, 14, 19, 22, 23, 28, 29 2nd. On the plating during the process of riveting } Oct 4, 5, 7, 14, 20, 25, 31, Nov 2, 4, 7, 11, 17, 23, 25 3rd. When the beams were in and fastened, and before the decks were laid... } 28, Dec 6, 16, 19, 28, 30, Jan 11, 13, 16, 20, 27, 30 4th. When the ship was complete, and before the plating was finally coated or cemented.. } Feb 7, 10, 13, 29, March 1, 2, 13 5th. After the ship was launched and equipped

General Remarks (State quality of workmanship, &c.) *This vessel has a short Poop raised Quarter Deck. Bridge & Forecastle. Poop 26'-0" Raised Quarter Deck 66'-0" Bridge 66'-0" Forecastle 32'-0" Built in accordance with the Rules approved Plans and Secretary's letters dated 4th August 1877 and 22nd November 1877. She is fitted with water ballast tanks fore & aft which have been tested by water pressure in accordance with the Rules and found satisfactory. Material & Workmanship good.*

State if one, two, or three decked vessel, or if spar, or awning decked; and the lengths of poop, bridge, fore-castle, or raised quarter deck. (If double bottom, state particulars on separate form.)
 How are the surfaces preserved from oxidation? Inside *Days Enamel & Paint* Outside *Paint*
 I am of opinion this Vessel should be Classed *100 A-1*

The amount of the Entry Fee£ 4 : - : - is received by me, *17/3/88*
 Special£ 62 : 16 : -
 (to be sent as per margin). Certificate gratis :-
 (Travelling Expenses, if any, £)
 Committee's Minute *TUES 20 MARCH 1888*
 Character assigned *100 A-1* *Shell plating Iron*
100 (iron)
2 1/2 in B
well at all
 Surveyor to Lloyd's Register of British and Foreign Shipping.
It is submitted that this vessel appears eligible to be classed 100 A-1 "Steel" plating iron framing Floor Beams Keelsons Stringers & inner bottom iron
2 1/2 in B
207/3/88
 Lloyd's Register Foundation